

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/872,349

DATE: 06/20/2001

TIME: 12:21:57

Input Set : A:\pbli-p01-007.txt

Output Set: N:\CRF3\06202001\I872349.raw

ENTERED

3 <110> APPLICANT: Sidney Pestka  
5 <120> TITLE OF INVENTION: PHOSPHORYLATED PROTEINS AND USES RELATED THERETO  
7 <130> FILE REFERENCE: PBLI-P01-007  
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/872,349  
C--> 10 <141> CURRENT FILING DATE: 2001-05-31  
12 <150> PRIOR APPLICATION NUMBER: 60/208,240  
13 <151> PRIOR FILING DATE: 2000-05-31  
15 <150> PRIOR APPLICATION NUMBER: 60/255,296  
16 <151> PRIOR FILING DATE: 2000-12-13  
18 <160> NUMBER OF SEQ ID NOS: 46  
20 <170> SOFTWARE: PatentIn Ver. 2.1  
22 <210> SEQ ID NO: 1  
23 <211> LENGTH: 4  
24 <212> TYPE: PRT  
25 <213> ORGANISM: Artificial Sequence  
27 <220> FEATURE:  
28 <223> OTHER INFORMATION: Description of Artificial Sequence: phosphorylated  
29 peptide  
31 <400> SEQUENCE: 1  
32 Arg Arg Ala Ser  
33 1  
36 <210> SEQ ID NO: 2  
37 <211> LENGTH: 5  
38 <212> TYPE: PRT  
39 <213> ORGANISM: Artificial Sequence  
41 <220> FEATURE:  
42 <223> OTHER INFORMATION: Description of Artificial Sequence: phosphorylated  
43 peptide  
45 <400> SEQUENCE: 2  
46 Arg Arg Ala Ser Val  
47 1 5  
50 <210> SEQ ID NO: 3  
51 <211> LENGTH: 8  
52 <212> TYPE: PRT  
53 <213> ORGANISM: Artificial Sequence  
55 <220> FEATURE:  
56 <223> OTHER INFORMATION: Description of Artificial Sequence: phosphorylated  
57 peptide  
59 <400> SEQUENCE: 3  
60 Arg Thr Lys Arg Ser Gly Ser Val  
61 1 5  
64 <210> SEQ ID NO: 4  
65 <211> LENGTH: 7  
66 <212> TYPE: PRT  
67 <213> ORGANISM: Artificial Sequence  
69 <220> FEATURE:  
70 <223> OTHER INFORMATION: Description of Artificial Sequence: phosphorylated

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/872,349

DATE: 06/20/2001

TIME: 12:21:57

Input Set : A:\pbli-p01-007.txt

Output Set: N:\CRF3\06202001\I872349.raw

71 peptide  
73 <400> SEQUENCE: 4  
74 Arg Lys Arg Ser Arg Lys Glu  
75 1 5  
78 <210> SEQ ID NO: 5  
79 <211> LENGTH: 7  
80 <212> TYPE: PRT  
81 <213> ORGANISM: Artificial Sequence  
83 <220> FEATURE:  
84 <223> OTHER INFORMATION: Description of Artificial Sequence: phosphorylated  
85 peptide  
87 <400> SEQUENCE: 5  
88 Leu Arg Arg Ala His Leu Gly  
89 1 5  
92 <210> SEQ ID NO: 6  
93 <211> LENGTH: 6  
94 <212> TYPE: PRT  
95 <213> ORGANISM: Artificial Sequence  
97 <220> FEATURE:  
98 <223> OTHER INFORMATION: Description of Artificial Sequence: phosphorylated  
99 peptide  
101 <400> SEQUENCE: 6  
102 Ser Glu Glu Glu Glu Glu  
103 1 5  
106 <210> SEQ ID NO: 7  
107 <211> LENGTH: 10  
108 <212> TYPE: PRT  
109 <213> ORGANISM: Artificial Sequence  
111 <220> FEATURE:  
112 <223> OTHER INFORMATION: Description of Artificial Sequence: phosphorylated  
113 peptide  
115 <400> SEQUENCE: 7  
116 Arg Arg Arg Glu Glu Glu Thr Glu Glu Glu  
117 1 5 10  
120 <210> SEQ ID NO: 8  
121 <211> LENGTH: 10  
122 <212> TYPE: PRT  
123 <213> ORGANISM: Artificial Sequence  
125 <220> FEATURE:  
126 <223> OTHER INFORMATION: Description of Artificial Sequence: phosphorylated  
127 peptide  
129 <400> SEQUENCE: 8  
130 Arg Arg Arg Glu Glu Glu Ser Glu Glu Glu  
131 1 5 10  
134 <210> SEQ ID NO: 9  
135 <211> LENGTH: 10  
136 <212> TYPE: PRT  
137 <213> ORGANISM: Artificial Sequence  
139 <220> FEATURE:

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/872,349

DATE: 06/20/2001

TIME: 12:21:57

Input Set : A:\pbli-p01-007.txt

Output Set: N:\CRF3\06202001\I872349.raw

140 <223> OTHER INFORMATION: Description of Artificial Sequence: phosphorylated  
141 peptide  
143 <400> SEQUENCE: 9  
144 Arg Arg Arg Asp Asp Asp Ser Asp Asp Asp  
145 1 5 10  
148 <210> SEQ ID NO: 10  
149 <211> LENGTH: 10  
150 <212> TYPE: PRT  
151 <213> ORGANISM: Artificial Sequence  
153 <220> FEATURE:  
154 <221> NAME/KEY: SITE  
155 <222> LOCATION: (7)  
156 <223> OTHER INFORMATION: Xaa=Ser or Thr  
158 <220> FEATURE:  
159 <223> OTHER INFORMATION: Description of Artificial Sequence: phosphorylated  
160 peptide  
162 <400> SEQUENCE: 10  
①→ 163 Ala Ala Ala Ala Ala Ala Xaa Glu Glu Glu  
164 1 5 10  
167 <210> SEQ ID NO: 11  
168 <211> LENGTH: 10  
169 <212> TYPE: PRT  
170 <213> ORGANISM: Artificial Sequence  
172 <220> FEATURE:  
173 <221> NAME/KEY: SITE  
174 <222> LOCATION: (7)  
175 <223> OTHER INFORMATION: Xaa=Ser or Thr  
177 <220> FEATURE:  
178 <223> OTHER INFORMATION: Description of Artificial Sequence: phosphorylated  
179 peptide  
181 <400> SEQUENCE: 11  
①→ 182 Ala Ala Ala Glu Glu Glu Xaa Glu Glu Glu  
183 1 5 10  
186 <210> SEQ ID NO: 12  
187 <211> LENGTH: 8  
188 <212> TYPE: PRT  
189 <213> ORGANISM: Artificial Sequence  
191 <220> FEATURE:  
192 <223> OTHER INFORMATION: Description of Artificial Sequence: phosphorylated  
193 peptide  
195 <400> SEQUENCE: 12  
196 Arg Arg Leu Ser Ser Leu Arg Ala  
197 1 5  
200 <210> SEQ ID NO: 13  
201 <211> LENGTH: 9  
202 <212> TYPE: PRT  
203 <213> ORGANISM: Artificial Sequence  
205 <220> FEATURE:  
206 <223> OTHER INFORMATION: Description of Artificial Sequence: phosphorylated

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/872,349

DATE: 06/20/2001

TIME: 12:21:57

Input Set : A:\pbli-p01-007.txt

Output Set: N:\CRF3\06202001\I872349.raw

207 peptide  
209 <400> SEQUENCE: 13  
210 Thr Glu Thr Ser Gln Val Ala Pro Ala  
211 1 5  
214 <210> SEQ ID NO: 14  
215 <211> LENGTH: 25  
216 <212> TYPE: DNA  
217 <213> ORGANISM: Artificial Sequence  
219 <220> FEATURE:  
220 <223> OTHER INFORMATION: Description of Artificial Sequence: primer  
222 <400> SEQUENCE: 14  
223 gtgaccgctg taccaacctc tgtcc 25  
226 <210> SEQ ID NO: 15  
227 <211> LENGTH: 33  
228 <212> TYPE: DNA  
229 <213> ORGANISM: Artificial Sequence  
231 <220> FEATURE:  
232 <223> OTHER INFORMATION: Description of Artificial Sequence: primer  
234 <400> SEQUENCE: 15  
235 ccctcgagtc acttgcccg ggacagggag agg 33  
238 <210> SEQ ID NO: 16  
239 <211> LENGTH: 27  
240 <212> TYPE: DNA  
241 <213> ORGANISM: Artificial Sequence  
243 <220> FEATURE:  
244 <223> OTHER INFORMATION: Description of Artificial Sequence:  
245 oligodeoxynucleotide  
247 <400> SEQUENCE: 16  
248 gcagcctcca ccaggcgccc atcggtc 27  
251 <210> SEQ ID NO: 17  
252 <211> LENGTH: 30  
253 <212> TYPE: DNA  
254 <213> ORGANISM: Artificial Sequence  
256 <220> FEATURE:  
257 <223> OTHER INFORMATION: Description of Artificial Sequence:  
258 oligodeoxynucleotide  
260 <400> SEQUENCE: 17  
261 gggcatgtgt gacgtctgtc acaagatttg 30  
264 <210> SEQ ID NO: 18  
265 <211> LENGTH: 31  
266 <212> TYPE: DNA  
267 <213> ORGANISM: Artificial Sequence  
269 <220> FEATURE:  
270 <223> OTHER INFORMATION: Description of Artificial Sequence:  
271 oligodeoxynucleotide  
273 <400> SEQUENCE: 18  
274 cctggggctt cgcgaaggat ttctgcaag g 31  
277 <210> SEQ ID NO: 19  
278 <211> LENGTH: 30

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/872,349

DATE: 06/20/2001

TIME: 12:21:57

Input Set : A:\pbli-p01-007.txt

Output Set: N:\CRF3\06202001\I872349.raw

279 <212> TYPE: DNA  
280 <213> ORGANISM: Artificial Sequence  
282 <220> FEATURE:  
283 <223> OTHER INFORMATION: Description of Artificial Sequence:  
284       oligodeoxynucleotide  
286 <400> SEQUENCE: 19  
287 gtgtcagttg gccggagggt tactttgagc 30  
290 <210> SEQ ID NO: 20  
291 <211> LENGTH: 34  
292 <212> TYPE: DNA  
293 <213> ORGANISM: Artificial Sequence  
295 <220> FEATURE:  
296 <223> OTHER INFORMATION: Description of Artificial Sequence:  
297       oligodeoxynucleotide  
299 <400> SEQUENCE: 20  
300 cggtgggcat gagtgacgtc tgcacaaga ttg 34  
303 <210> SEQ ID NO: 21  
304 <211> LENGTH: 34  
305 <212> TYPE: DNA  
306 <213> ORGANISM: Artificial Sequence  
308 <220> FEATURE:  
309 <223> OTHER INFORMATION: Description of Artificial Sequence:  
310       oligodeoxynucleotide  
312 <400> SEQUENCE: 21  
313 cggtgggcat gagtgacgtc tgcacaaga ttg 34  
316 <210> SEQ ID NO: 22  
317 <211> LENGTH: 32  
318 <212> TYPE: DNA  
319 <213> ORGANISM: Artificial Sequence  
321 <220> FEATURE:  
322 <223> OTHER INFORMATION: Description of Artificial Sequence: primer  
324 <400> SEQUENCE: 22  
325 cccctcgagc caccatggag tggtcctggg tc 32  
328 <210> SEQ ID NO: 23  
329 <211> LENGTH: 33  
330 <212> TYPE: DNA  
331 <213> ORGANISM: Artificial Sequence  
333 <220> FEATURE:  
334 <223> OTHER INFORMATION: Description of Artificial Sequence: primer  
336 <400> SEQUENCE: 23  
337 cccaagcttt ttggcgctgg agacggtgac cag 33  
340 <210> SEQ ID NO: 24  
341 <211> LENGTH: 31  
342 <212> TYPE: DNA  
343 <213> ORGANISM: Artificial Sequence  
345 <220> FEATURE:  
346 <223> OTHER INFORMATION: Description of Artificial Sequence: primer  
348 <400> SEQUENCE: 24  
349 cctctagacc accatggata gccaggccca g 31

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/872,349

DATE: 06/20/2001

TIME: 12:21:58

Input Set : A:\pbli-p01-007.txt

Output Set: N:\CRF3\06202001\I872349.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11